

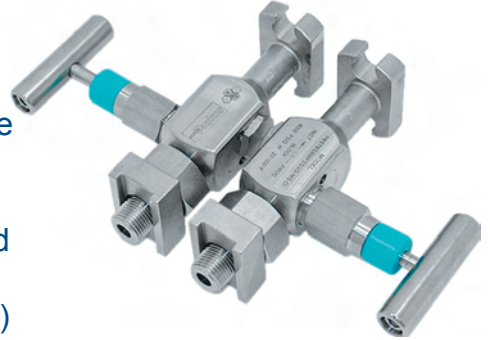
P6ST6S™ STABILIZED CONNECTOR WITH INTEGRAL BLOCK VALVE

STABILIZED CONNECTOR

US PATENT NO.: US D615,617 S

3/8" Bore Integral Valve Connector

The ST6S incorporates a stabilized connector with an integral block valve. Redundant soft seats allow the stabilizer to align with a simple half turn, facilitating easy installation. The ST6S incorporates an instrument valve eliminating the potential of pressure shock to the measurement device. Lock pins and a pin insertion tool are provided for easy installation. The ST6S is designed with two styles of shoes for both round (i.e.: orifice flange unions) and flat (i.e.: senior fittings) surfaces. The slotted bolt holes accommodate 2-1/8" to 2-1/4" bolt spacing. The shoes provide a large footprint which transfers the radial load away from the NPT threads. Dielectric gaskets are available as an option to provide a non-conductive barrier between the instrument and meter run. The ST6S featured wrench flats provide a quick and easy installation.



Standard Features

Hydrotested at 150% of rated pressure (shell test). Nitrogen gas tested to 2000 psi.

Seat tightness (zero leakage) verified to 110% of rated pressure. Nitrogen gas tested to 2000 psi.

Packing below stem threads

Metal body to bonnet seals are in compression, not tension

Stem threads are rolled, not cut

Non-rotating tapered tip stem

8 RMS stem finish

V-Style PTFE packing

Pressure component materials sourced from the US, Canada or Europe

Benefits

Complies with ASME B31.1 & B31.3 shell testing procedures as standard. Ensures structural integrity of valve.

Complies with ASME B31.1 & B31.3 seat testing procedures as standard. Ensures zero leakage at seats for proper calibration.

Prevents corrosion of critical stem threads

Mitigates risk of stress cracking

Higher quality stem for longer service life

Extended soft seat life and a reliable soft seat shut off

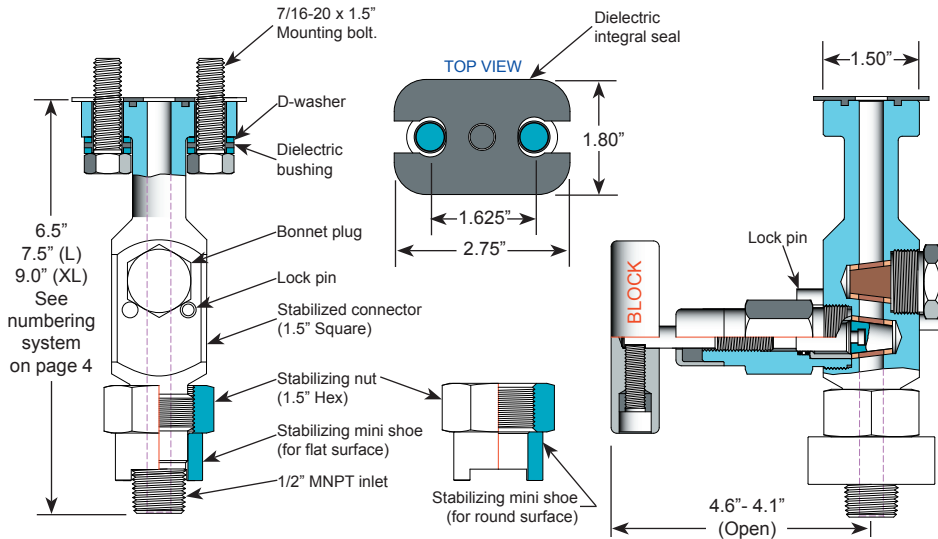
Extended packing life

30-40% less operational torque and less frequent packing adjustments than traditional Teflon™ packed valves.

Reliable material traceability. MTR's provided with every order for pressure containing components.

P6ST6S™ Stabilized Valve Connector

Technical Specifications, Bonnet, Stem and Seat Characteristics



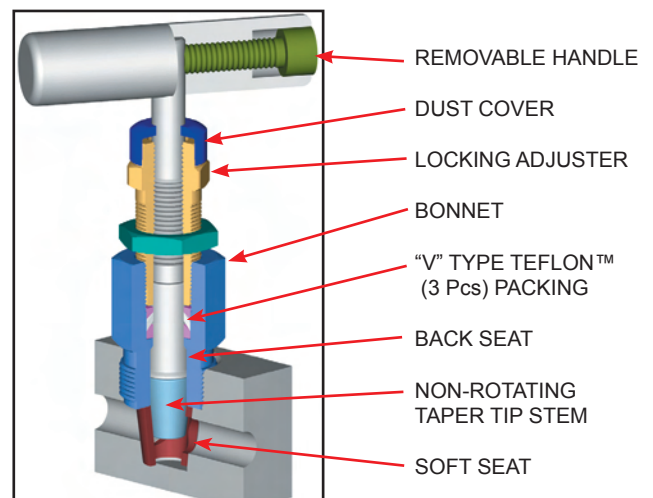
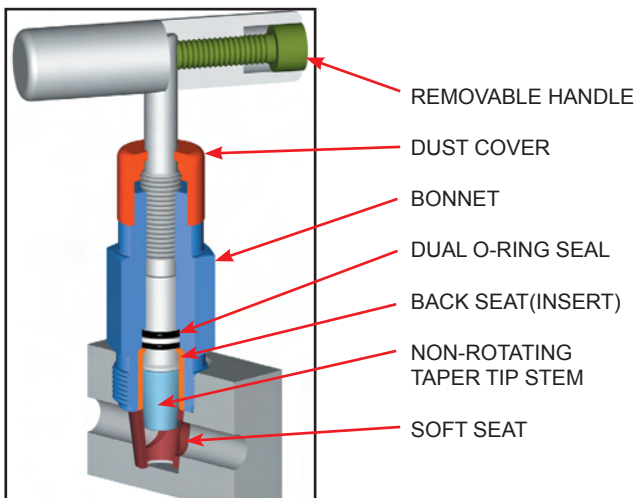
Specifications:

Type: **P6ST6S** Stabilized Connector with Integral Block Valve, Roddable Pattern
Rating: Up to 6000 psi @ 100°F (41370 kPa @ 38°C)
Stem: Non-rotating Taper Tip
Packing: Viton™ O-ring or Teflon™
Seat: Delrin™, Peek™ or Tefzel™
Handle: Removable
Bore Size: 3/8"
Inlet Connections: 1/2" MNPT
Outlet Connections: 2-Bolt Integral Flange
Bonnet Lock: Pin or Plate
Weight: 3.4 lbs
Special Service: O₂ or CL cleaning available*

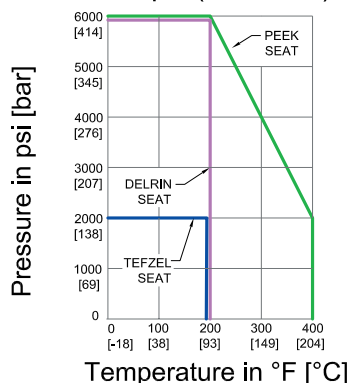
*Other specifications or services may be available.

ILLUSTRATION SHOWN WITH DIELECTRIC OPTION

3/8" Bore O-ring and Packed Bonnet Assembly

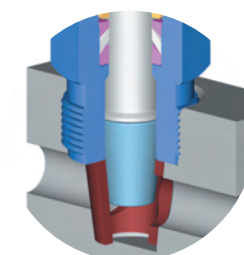


Pressure vs. Temperature Chart
6000 psi (Soft Seat)

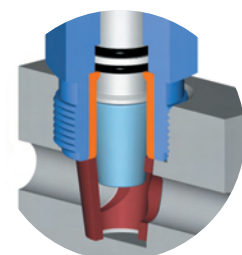


Note: Packing material ratings based on manufacturer's specifications. Approximations only. Phoenix does not represent these values as finite. They are provided only as representative values.

Stem and Seat Configurations



3/8" Bore
Non-rotating Packed



3/8" Bore
Non-rotating O-ring

P6ST6S™ Stabilized Valve Connector

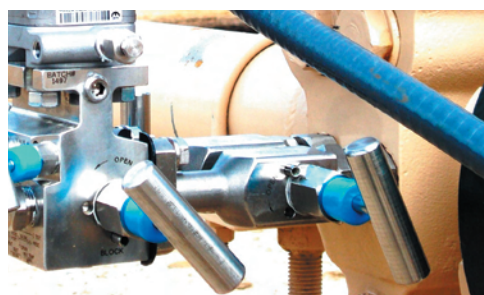
Assembly Procedure and Application



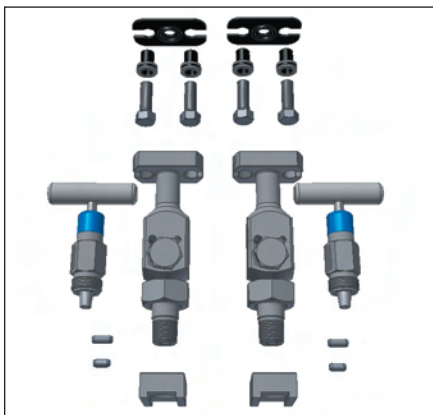
P6ST6S™ APPLICATION

Left: installed with straight manifold

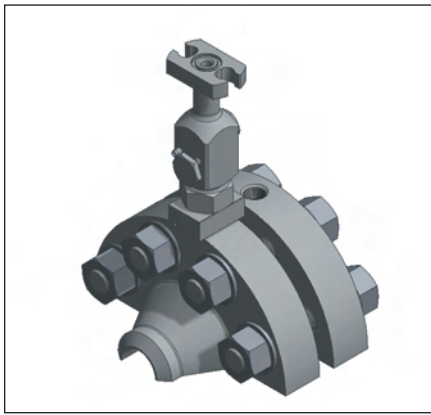
Right: installed with angle manifold



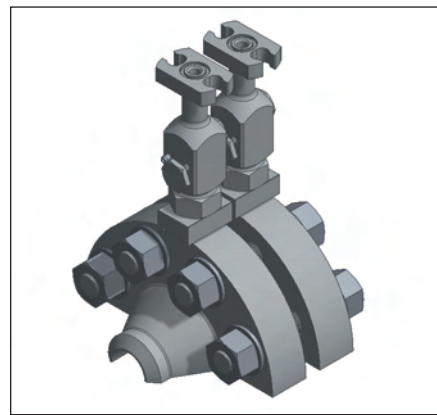
ASSEMBLY PROCEDURE



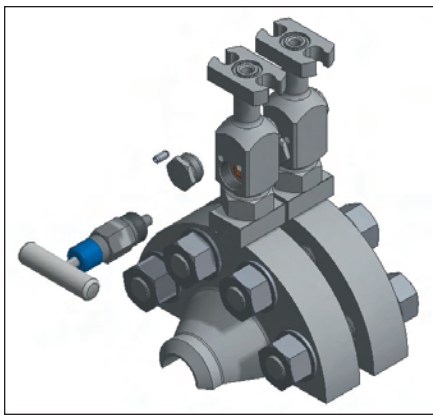
Assembly of parts



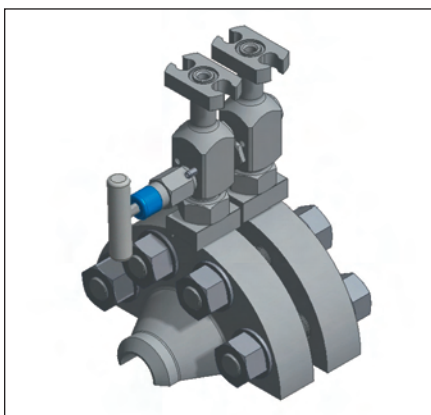
Step 1: Install 1st tap



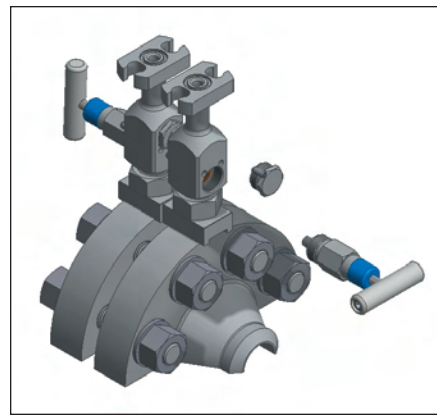
Step 2: Install 2nd tap



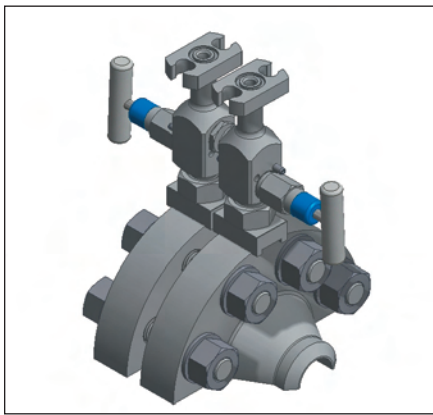
Step 3: Remove 1st bonnet plug



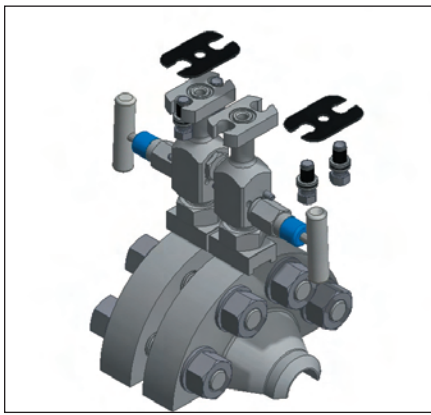
Step 4: Install 1st bonnet



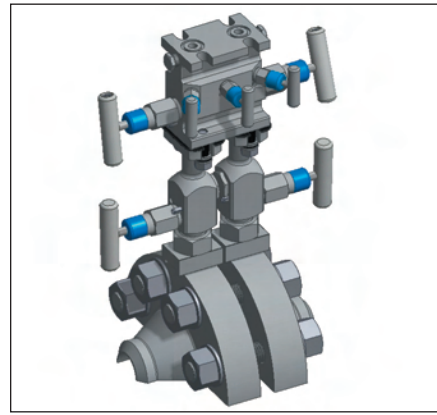
Step 5: Remove 2nd bonnet plug



Step 6: Install 2nd bonnet



Optional: Dielectric kit



Step 7: Install 5-valve manifold

Phoenix	Orifice Size	Type	Inlet Size	Inlet Type	Outlet Type	Material	Packing	Seat	Shoe Type	Option
P	6=3/8"	ST6S	8=1/2"	M=MNPT	IF=INTEGRAL FLANGE	SS=ASTM A182 316 /316L	V=FKM	D=Delrin™	MS=MINI SHOE	DI=Dielectric
		STL6S*				CS=ASTM A108 CS	A=Aflas™	P=Peek™		S6=316SS bolt
		STXL6S*					T=PTFE	Z=Tefzel™		OR=O-ring
Example: P6ST6S8MIFSSVDHS = 3/8" Bore, 1/2" MNPT Inlet, Integral Flange Outlet, 316SS, Viton™ packing, Delrin™ Seat, Hex Shoe										
P	6	ST6S	8	M	IF	SS	V	D	MS	
*STL6S and STXL6S for extended length valve body, consult Phoenix Precision for details.										
Note: Standard Bolting Options , CS - carbon steel, Gr.8, zinc plated bolts; SS - stainless steel, 18.8 (304SS) bolts.										

Seal & Seat Temperature Rating

Code	Description	Min. Temp.	Max. Temp.
A	Aflas™	15°F (-10°C)	400°F (204°C)
V	Viton™	-20°F (-29°C)	400°F (204°C)
T	PTFE	-65°F (-54°C)	450°F (232°C)
D	Delrin™	-40°F (-40°C)	200°F (93°C)
P	Peek™	-40°F (-40°C)	400°F (204°C)
Z	Tefzel™	-300°F (-185°C)	300°F (150°C)

Materials of Construction

Code	SS	SC	CS
Body	ASTM A182 316SS	ASTM A105 CS	ASTM A108 CS
Bonnet	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Stem	ASTM A182 316SS	ASTM A182 316SS	ASTM A582 303SS
Insert	ASTM A182 316SS	ASTM A182 316SS	ASTM A108 CS
Handle	ASTM A582 303SS	ASTM A582 303SS	ASTM A108 CS

Use with Confidence, Phoenix Precision Products Meet the Following Specifications:

- ✓ ASME B31.1 Power Piping
- ✓ ASME B31.3 Process Piping
- ✓ ASME B16.34 Valves - Flanged, Thread, and Welding End
- ✓ API 598 Valve Inspection and Testing
- ✓ MSS SP-25 Standard Marking Systems for Valves, Fittings and Flange Unions
- ✓ MSS SP-99 Instrument Valves
- ✓ MSS SP-105 Instrument Valves for Code Applications
- ✓ NACE MR0175 for all 316SS valves and A105CS body/316SS bonnet (SC Material Code)

For further information please contact:



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